



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/849,526
Source: OIPÉ
Date Processed by STIC: 7/24/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE SEE BELOW

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST 25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

FILE COPY

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 7/547-26

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1. Wrapped Nucleic
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3, this will prevent "wrapping."
2. Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
3. Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use **space characters**, instead.
4. Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
5. Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6. PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
7. Skipped Sequences
(OLD RULES) Sequences(s) missing. If intentional, please insert the following lines for **each** skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
8. Skipped Sequences
(NEW RULES) Sequences(s) missing. If intentional, please insert the following lines for **each** skipped sequence
<210> sequence id number
<400> sequence id number
000
9. Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents
10. Invalid <213>
Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
11. Use of <220> Sequences(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (See 1.823 of Sequence Rules)
12. PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13. Misuse of n n can only be used to represent a single **nucleotide** in a nucleic acid sequence. N is **not** used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch 08/21/2001

When you use any of the fields 221, 222 or 223, these fields must be preceded by the 220 field. The 220 field is a header field for the introduction of the different "features" described in 221, 222 or 223

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

OIEP

RAW SEQUENCE LISTING

DATE: 07/24/2001

PATENT APPLICATION: US/09/849,526

TIME: 09:10:28

Input Set : D:\Pa_00348.rpt

Output Set: N:\CRF3\07242001\I849526.raw

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1 <110> APPLICANT: Ruif, Thomas G.
2      Shukla, Hridayabhiranjan
3 <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
4      Plants
5 <130> FILE REFERENCE: 38-21(51930)B
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/849,526
C--> 9 <141> CURRENT FILING DATE: 2001-05-07
9 <150> PRIOR APPLICATION NUMBER: US 60/202,214
11 <151> PRIOR FILING DATE: 2000-05-08
13 <150> PRIOR APPLICATION NUMBER: US 09/654,617
14 <151> PRIOR FILING DATE: 2000-09-05
16 <150> PRIOR APPLICATION NUMBER: US 09/684,016
17 <151> PRIOR FILING DATE: 2000-10-10
19 <150> PRIOR APPLICATION NUMBER: US 09/816,660
20 <151> PRIOR FILING DATE: 2001-03-26
22 <160> NUMBER OF SEQ ID NOS: 30131
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 454
26 <212> TYPE: DNA
27 <213> ORGANISM: Tea mays subsp. mexicana
29 <223> OTHER INFORMATION: Clone ID: uC-zmroteosinte002d05b1
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37 cgggcgcctc gcttgugcca cggacgacca ctccctccac aacgccttca gcacctacgg   180
39 cgaattctctc gattcnaaga tctctctcga tggggagagc cagaggtccc gcggttctgg   240
41 ctctctcacc ttctccacgg aggagcgcat ggggaacgcc atcgagggca tgaacggcaa   300
43 ggaattggac ggcgcgaaac taccggtcaa cgaagcccaq tcccgcgcgc gcggtggaag   360
45 cgggcgcgcg ggttgggtt gttgggttga agcaggggc tccggtggtg gcgggcgcgc   420
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51 <211> LENGTH: 456
52 <212> TYPE: DNA
53 <213> ORGANISM: Tea mays subsp. mexicana
55 <223> OTHER INFORMATION: Clone ID: uC-zmroteosinte002d12b1
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61 cagcgcgcgt tctctctcc actgactgca ccttctcag ggtgtctggt tctgagttgg   120
63 ttcaaaaata tattggtgag ggtctccgga tggttaggga actctttgtt atggccaggg   180
65 aacatgcacc atccattata tttatggatg aaattgactc tctcgaatct cctagaatgg   240
67 agtctgggac tggcaacggt gacagtgaag ttccagcgtac tatgcttgaa cttctaaacc   300
69 agctcgatgg ttttgaagca tcaaacaaaa ttaaggtttt gatgcgaacg aacagaataq   360
71 acattttgga tcaagccctt ctgagccctg gccgcataga caggaagatt gaatttccaa   420
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76 <210> SEQ ID NO: 3
77 <211> LENGTH: 461
78 <212> TYPE: DNA

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The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

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TIME: 09:10 28

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81 <223> OTHER INFORMATION: Clone ID: uC-zmroteosinte002e07b1
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89 gagactgac caaagcaatt caaaacqag gagagaagg gaattcaaca acaccaagag 180
91 cggatgagc aggcacgca acctgaagag caaagttctc agcaggatg ccattgagag 240
93 gacccggagc aattccaaa cttgaagaaq ctaggcggcg caccacgtct tctgacaaac 300
95 gtqccccqgt tctccctca qgagcttata caacagaagc agcttcgac cggcgagcgg 360
97 atgacctgca gaaagcaag cagccgtaga qagagtgtcc tctgtgata caatgtttca 420
99 qgaccaggag cagcagcag qggacgaca ctgcccattg t 461
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103 <211> LENGTH: 477
104 <212> TYPE: DNA
105 <213> ORGANISM: Zea mays subsp. mexicana
107 <223> OTHER INFORMATION: Clone ID: uC-zmroteosinte002h03a1
109 <400> SEQUENCE: 4
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113 ttattctcaa gagattgcaa ccagccaaac agggggaaca gaatcggagc tacaagaccg 120
115 gtcaatttgt ccttaaatca taaaaaaaaa aactaaaaaa cctgtttctt attttgctac 180
117 taccatcagt cggctacgca aaaaactccc atcaaacctc ttattaaaca atttcacaca 240
119 caatatggag acctgaagc tctccaatg gccagtctcc actcccaaaa actgtaagaa 300
121 caaagtaag gagcatctc tatacgcgag caccgagttc cagcatcaaa gtatggttcg 360
123 attcattact tccagcgcca ctgaactaga tggggccagg cctgatgtat ctgttcttga 420
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129 <211> LENGTH: 301
130 <212> TYPE: DNA
131 <213> ORGANISM: Zea mays subsp. mexicana
133 <223> OTHER INFORMATION: Clone ID: uC-zmroteosinte003f08b1
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139 aaagggcaga gatcgcaaac aacatctgat tttcctgtaq caaaagatgg aaatcttata 120
141 ttacattga gtaggttcaa tgcattctt ctatttgata qggagacaaa acatgagaga 180
143 atnattgaag agcgtatgac aattacttca tttctctat tacaagatgg tgatttctct 240
145 ctgttaaatc ttgttatgta aaaaattcat ttctgggaca taaqaatga tctgttctga 300
147 t 301
150 <210> SEQ ID NO: 6
151 <211> LENGTH: 400
152 <212> TYPE: DNA
153 <213> ORGANISM: Zea mays subsp. mexicana
155 <223> OTHER INFORMATION: Clone ID: uC-zmroteosinte003q03b1
157 <400> SEQUENCE: 6
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163 ccagcaggtc gccgaccagg actacgcta agtaagtctc cgttcgtctg gattgagctc 180
165 atccaacgca gccgcgctt tcatcgccg tcttcatttg ctltgctctt catttcatca 240
167 cgttatgtaa cgtgccaatg atgtgtgtcg tcttqgtctg ttccgtcgtc cttgtattca 300
169 tttcccttct ttttctgggg taaaatcatt gtaagatct catccgatct gcccttttcg 360

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175 <211> LENGTH: 421
176 <212> TYPE: DNA
177 <213> ORGANISM: Zea mays subsp. mexicana
179 <223> OTHER INFORMATION: Clone ID: uC-zmroteosinte003g10b1
181 <400> SEQUENCE:
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185 acaaaacacg cgcacacggc ttctccggga agctcaccac ccagcaggtc aagcatctca      120
187 aagaaacaac aggtgttctc caggtttgtg cgcagcagac ttaccagcta catggtcctg      180
189 ggtctggcac tcaccagggc acgacacaca ccttggggct tatgtgaag cgtatgagaa      240
191 tcaggaagat tgtgtttagt atggtgttat ggcacaggtc tgcgaatgt gtatagtaca      300
193 gtactatgta agaataaggc aggtatcgtc tatatactgc ttgcgcctg ttcagccctg      360
195 ttctcaaggt tggaaacac caatgggtat tgtttcaata caatgacaag tatgctatct      420
197 t
200 <210> SEQ ID NO: 8
201 <211> LENGTH: 533
202 <212> TYPE: DNA
203 <213> ORGANISM: Zea mays subsp. mexicana
205 <223> OTHER INFORMATION: Clone ID: uC-zmroteosinte004h1b1
207 <400> SEQUENCE:
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213 ggcacacatc ccgcacagct tctctccaat ctccattgat ataattgact ccattcggtc      180
215 tgggtgtgac tgttttcagg gtgaagacaa gaagtgcacc agcaatttcc attttcttgc      240
217 tcaggaatgc aatgggcaca tcatttatct accctccacc accctccctt taccgactgt      300
219 acaaaaattt tgaacagat cctttcatct gcaccagaac ctccaccacc aattgatgga      360
221 ccattcaaaq ctgtcaatgc tgattacaca ggaatgtttg tgattccaag ctggagagac      420
223 ataattgttg tcagctttat ccaaaaggcc ccaatattga ctccaaaaag gagctaattg      480
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229 <211> LENGTH: 354
230 <212> TYPE: DNA
231 <213> ORGANISM: Zea mays subsp. mexicana
233 <223> OTHER INFORMATION: Clone ID: uC-zmroteosinte005a06b1
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241 tcaacgtcat aaaaaggttt ctgaaaaagt tgcataagac ttctccctc agttagcact      180
243 tgggttgaaa atgcttcgcg ataataacgt qtttcaccga gacctaaaa ctccagaaact      240
245 tctttctatt gaaaataatg aaaataactct qttgaagatt gccgactttg gatttgcaaa      300
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251 <211> LENGTH: 523
252 <212> TYPE: DNA
253 <213> ORGANISM: Zea mays subsp. mexicana
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265 agagcgccct cgaatgctg ccgcgggcgc ggcaggaatt gtactctcgc ctcttcgcgt 240
267 ggcgcagagt cagggggaac cagcccaacg gagcgcgggg gttgggcgcc ctctgagtga 300
269 gctcagggca ggaaggagc atggagatca ggaagagaga cggacggcgt tgcgaactct 360
271 gtaaatagag cataggcga ggagtgcgac ctgactgaa ctggtcgggg ttaagaagtcg 420
273 agtgtgttcg ttcttcgtac atgggaacgc ggcttacct gggagccggc ccggtcttgg 480
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280 <212> TYPE: DNA

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295 aaaaagaagt ctcttgagtc tacatatcag gtgaagatga ggcctccagt agtttgggaa 300
297 gcttcacatc gattgttgaa aacgtggttg aagtgcctcg tagatgttc atcttattgc 360
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301 taccgaattt atcagtgatt ggaactgaat gaggttctgt gtggaatcat gatgcatata 480
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308 <210> SEQ ID NO: 12

309 <211> LENGTH: 545

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311 <213> ORGANISM: Tea mays subsp. mexicana

313 <223> OTHER INFORMATION: Clone ID: uC-zmroteosinte006d05b1

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321 ttggtgttac ctctccgcgc ttgcagcttt gaaaqaattt gcttttatga agcctttaag 180
323 ggcgtatgtt ttctgttct ccaactgctg agattgcatt cgcattgtg tgateatgtc 240
325 acttggtcag gcatatcttc ttgttcaagt gaaaqaatta caaaatccag atgacgtttt 300
327 tgacacaatt ctggtcttta ttgttcgttt ggcagagcat ggaactgata atttggaatt 360
329 caatnaattc aatatcatga ttgatgatga tgaaaaaatt acggttattg atttaccaca 420
331 gatgcatctc atttcacat gtaatcccca aatgtttttt gaccagagca ttgaatgtat 480
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345 <400> SEQUENCE: 13

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351 aggcaggaat ctttcaagct tgggaatggt ggtgttatga gacgtggaac tatcatatct 180

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369 <211> LENGTH: 548
370 <212> TYPE: DNA
371 <213> ORGANISM: Zea mays subsp. mexicana
373 <220> FEATURE:
374 <221> NAME/KEY: unsure
375 <222> LOCATION: (1)..(548)
376 <223> OTHER INFORMATION: unsure at all n locations
377 <223> OTHER INFORMATION: Clone ID: uC-zmroteosinte007f08b1
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415 taaccggaag aggtatgac cgtccgtaaq aacggcttca tctctatcaa gaacccgccc 180
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421 aactatgata ttccgcctgt gaaccgtact ggtaccagc tgattgatat atcagaggat 360
423 gaatttgtga gcctttctac ttcaatgqc aacactaagg atgatcttag actcccaact 420
425 gatgagactc ttgtggccca gatcaaggaa gggtttgaaa ggggcaaggc tcttattgtg 480
427 actgtccact ctgctatggg ggaaggag 507
430 <210> SEQ ID NO: 16
431 <211> LENGTH: 559
432 <212> TYPE: DNA
433 <213> ORGANISM: Zea mays subsp. mexicana
435 <220> FEATURE:
436 <221> NAME/KEY: unsure
437 <222> LOCATION: (1)..(559)

```

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/849,526

DATE: 07/24/2001

TIME: 09:10:29

Input Set : D:\Pa_00348.rpt

Output Set: N:\CRF3\07242001\I849526.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:1091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1353 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:1533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:2073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81
L:2151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84
L:2229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87
L:2257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88
L:2287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89
L:2349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91
L:2531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98
L:2965 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116
L:3065 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120
L:3067 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120
L:3289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129
L:3409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134
L:3543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:139
L:3679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144
L:3823 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150
L:4119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:162
L:4201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:165
L:4395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:173
L:4405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177
L:4645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183
L:4969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:197
L:5001 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:198
L:5103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:202
L:5163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204
L:5587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220
L:5589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220
L:5939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236
L:6125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:244
L:6495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:260
L:6497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:260
L:6601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:264
L:6859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:276
L:7259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:291
L:7335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294
L:7381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:296
L:7411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:297
L:7425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:297

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/849,526

DATE: 07/24/2001

TIME: 09:10 29

Input Set : D:\Pa_00348.rpt

Output Set: N:\CRF3\07242001\I849526.raw

L:7441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 298
L:7455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 298
L:7551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 302
L:7619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 305